



PLANAR MONOLITHICS INDUSTRIES
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LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-1G20G-55-12-SFF
 TESTED BY: Jeremy Walker
 DATE: 06/26/25
 SERIAL NO: PL53504
 Test Temp: +25C

Output Offset(V)= 0.136

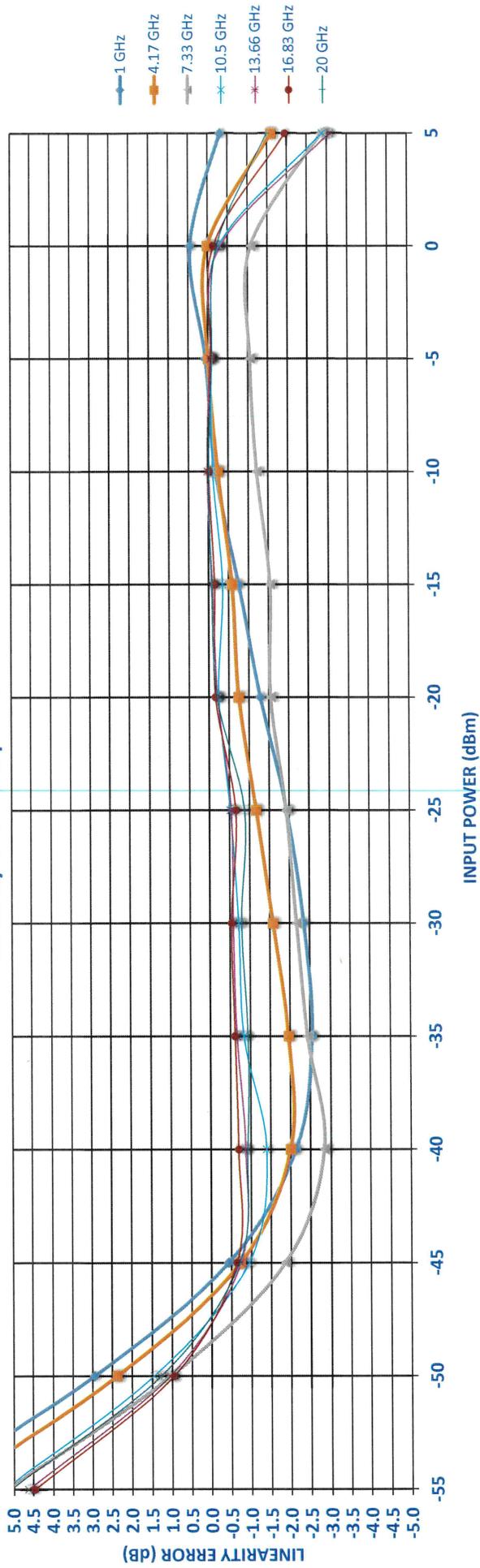
Frequency

| Frequency | INTERCEPT (mV) | SLOPE (mV/dB) | 50 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 | 5 | RF Input Power (dBm) |
|------------------|----------------|---------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| 1 GHz | 2572 | 50.9 | 151 | 180 | 260 | 428 | 665 | 928 | 1194 | 1479 | 1765 | 2048 | 2327 | 2602 | 2821 |
| | | | 378 | 153 | -22 | -108 | -126 | -117 | -106 | -75 | -44 | -15 | 10 | 30 | -5 |
| | | | 7.43 | 3.00 | -0.43 | -2.13 | -2.47 | -2.30 | -2.08 | -1.47 | -0.85 | -0.29 | 0.19 | 0.59 | -0.10 |
| 4.17 GHz | 2641 | 51.6 | 156 | 192 | 288 | 475 | 731 | 1009 | 1279 | 1561 | 1837 | 2114 | 2384 | 2650 | 2834 |
| | | | 350 | 129 | -33 | -104 | -106 | -85 | -73 | -49 | -31 | -11 | 1 | 9 | -65 |
| | | | 6.80 | 2.50 | -0.64 | -2.01 | -2.05 | -1.66 | -1.42 | -0.95 | -0.60 | -0.22 | 0.01 | 0.17 | -1.26 |
| 7.33 GHz | 2668 | 50.7 | 159 | 200 | 305 | 505 | 765 | 1033 | 1291 | 1564 | 1836 | 2107 | 2372 | 2628 | 2803 |
| | | | 279 | 67 | -82 | -135 | -129 | -114 | -110 | -90 | -72 | -54 | -43 | -40 | -119 |
| | | | 5.51 | 1.32 | -1.61 | -2.67 | -2.54 | -2.25 | -2.16 | -1.78 | -1.42 | -1.07 | -0.85 | -0.80 | -2.34 |
| 10.5 GHz | 2612 | 49.4 | 167 | 219 | 352 | 573 | 830 | 1084 | 1331 | 1592 | 1853 | 2113 | 2367 | 2609 | 2736 |
| | | | 274 | 78 | -36 | -62 | -52 | -45 | -45 | -31 | -17 | -5 | 2 | -3 | -123 |
| | | | 5.53 | 1.59 | -0.72 | -1.25 | -1.05 | -0.91 | -0.92 | -0.63 | -0.35 | -0.09 | 0.05 | -0.06 | -2.49 |
| 13.66 GHz | 2584 | 47.9 | 175 | 240 | 391 | 623 | 874 | 1118 | 1355 | 1609 | 1857 | 2104 | 2340 | 2575 | 2699 |
| | | | 229 | 54 | -35 | -43 | -31 | -27 | -30 | -16 | -7 | 0 | -4 | -9 | -124 |
| | | | 4.77 | 1.12 | -0.73 | -0.89 | -0.66 | -0.57 | -0.62 | -0.33 | -0.15 | 0.00 | -0.08 | -0.18 | -2.59 |
| 16.83 GHz | 2553 | 47.3 | 175 | 239 | 395 | 626 | 868 | 1108 | 1329 | 1588 | 1835 | 2077 | 2317 | 2552 | 2716 |
| | | | 224 | 51 | -29 | -35 | -29 | -26 | -41 | -19 | -9 | -3 | 0 | -1 | -74 |
| | | | 4.73 | 1.08 | -0.62 | -0.74 | -0.62 | -0.55 | -0.88 | -0.40 | -0.18 | -0.07 | 0.01 | -0.02 | -1.56 |
| 20 GHz | 2486 | 46.5 | 169 | 224 | 359 | 579 | 812 | 1052 | 1279 | 1543 | 1781 | 2016 | 2253 | 2479 | 2656 |
| | | | 242 | 64 | -33 | -46 | -46 | -38 | -44 | -13 | -7 | -5 | -1 | -7 | -63 |
| | | | 5.20 | 1.38 | -0.72 | -0.99 | -0.98 | -0.83 | -0.95 | -0.27 | -0.16 | -0.11 | -0.01 | -0.16 | -1.35 |
| Flatness +/-dB | | | 0.2 | 0.6 | 1.4 | 2.0 | 2.1 | 1.9 | 1.6 | 1.3 | 0.9 | 1.0 | 1.3 | 1.7 | 1.8 |
| Slope Avg(mv/dB) | | | | | | | | | | | | | | | 49.2 |

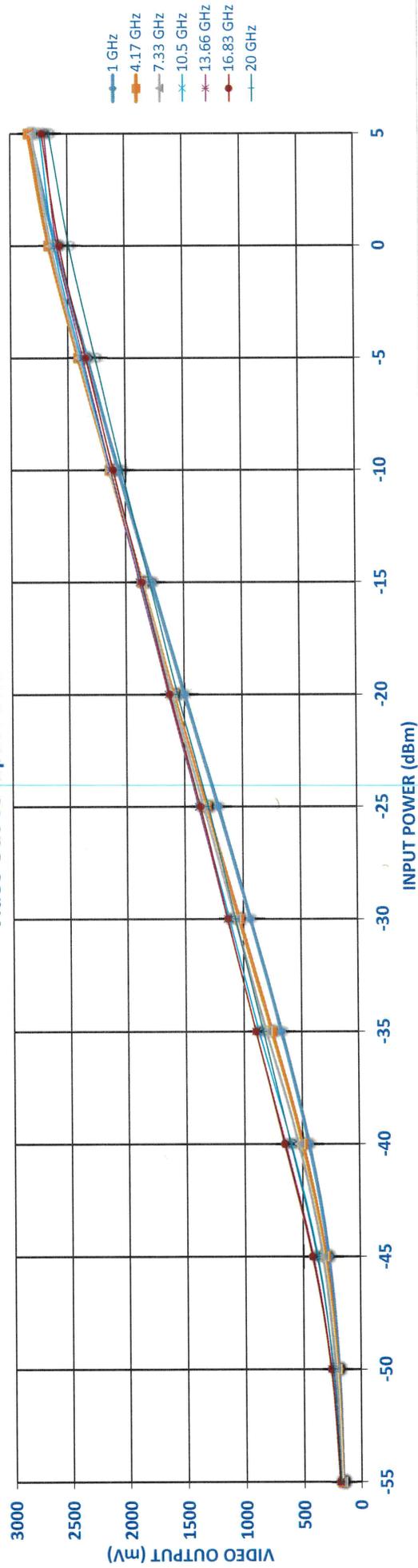
Slope Avg(mv/dB) 49.2

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Linearity Error VS Input Power



Video Out VS Input Power

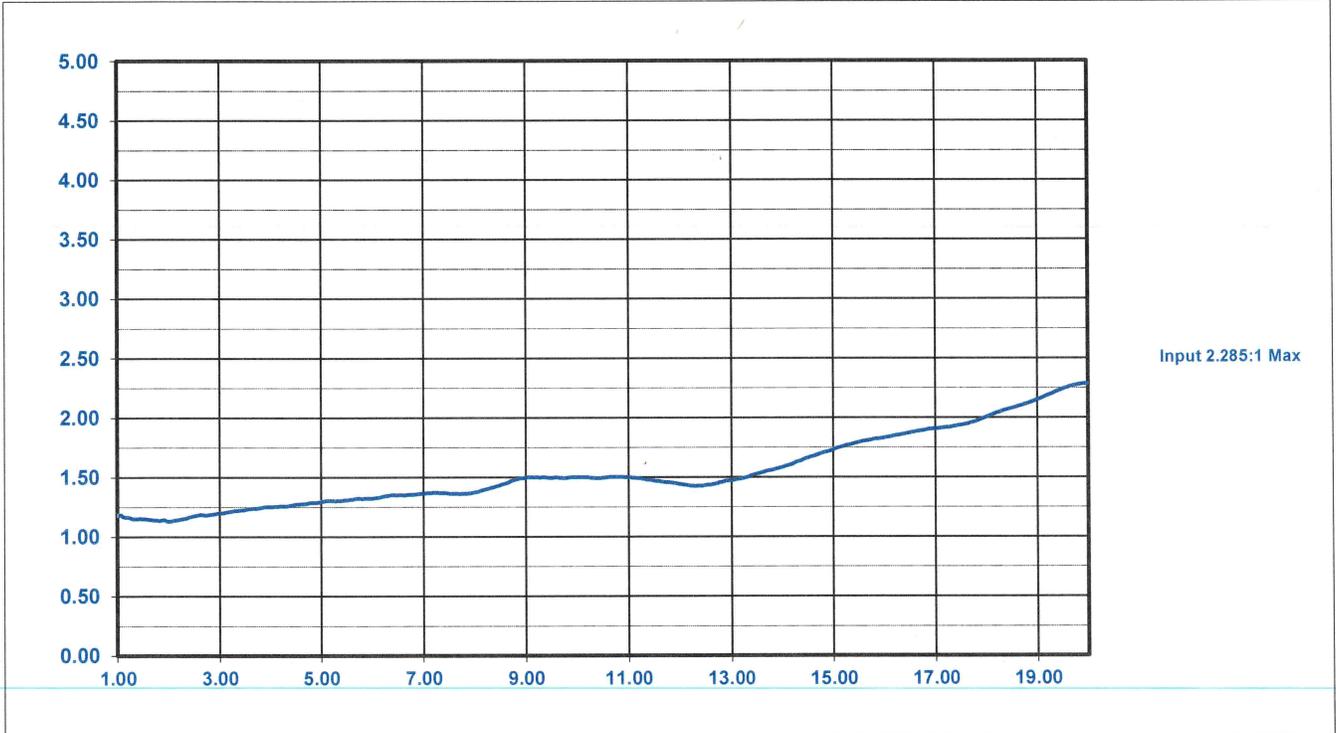




**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Model Number: SDLVA-1G20G-55-12-SFF
Serial Number: PL53504

Temperature: +25C

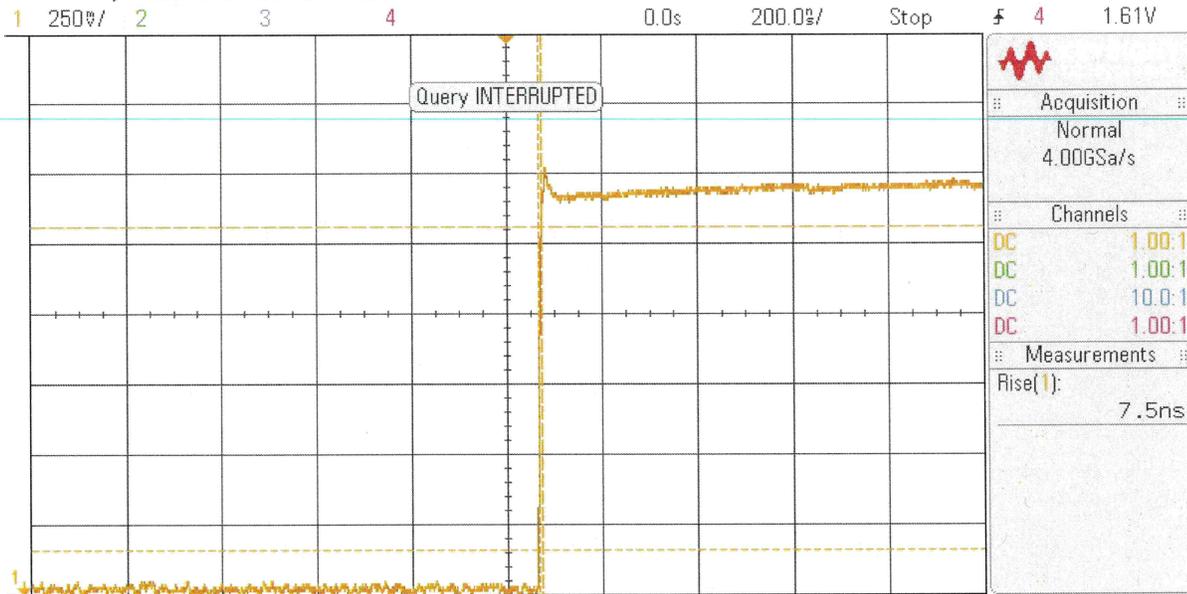




**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Rise Time = 7.5 ns

DSO-X 3034A, MY52394003: Tue Jun 24 10:22:37 2025



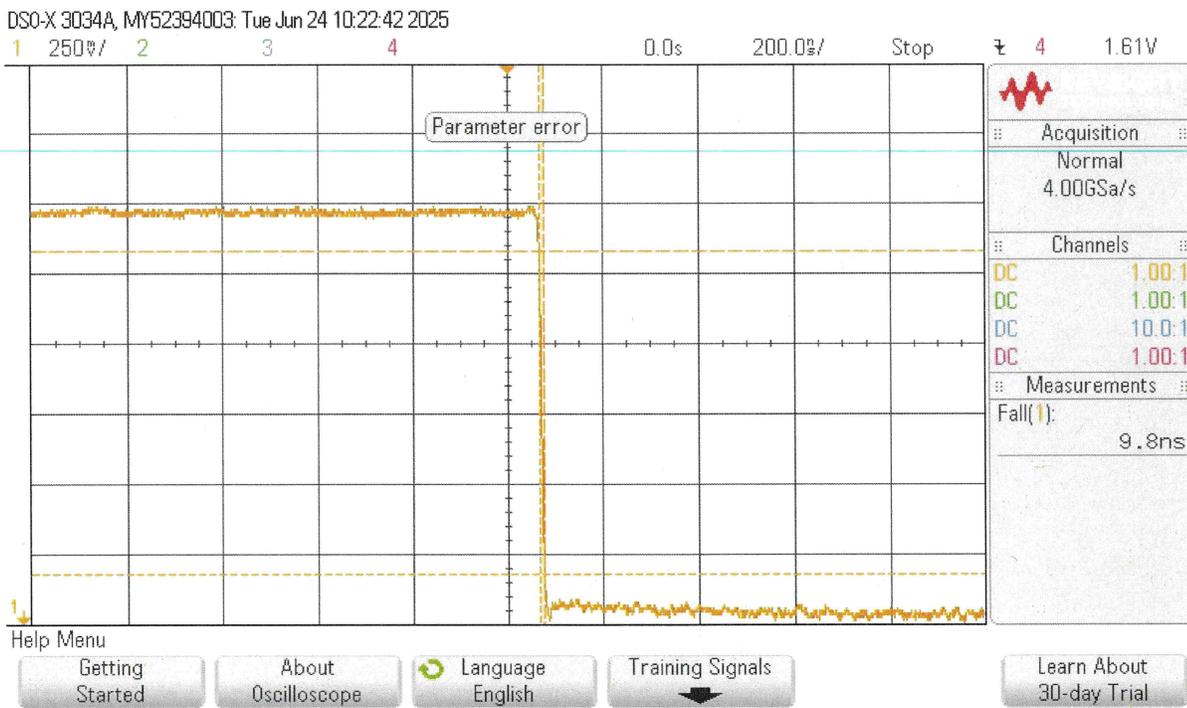
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**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Fall Time = 9.8 ns

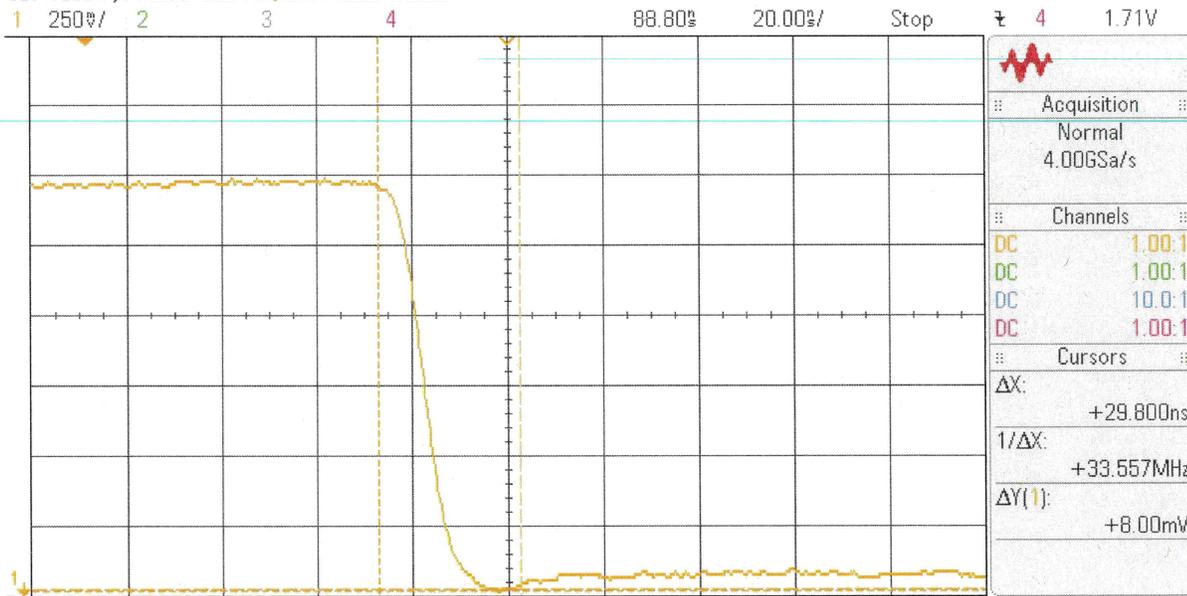




**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

Recovery Time = 29.8 ns

DSO-X 3034A, MY52394003: Tue Jun 24 10:23:16 2025



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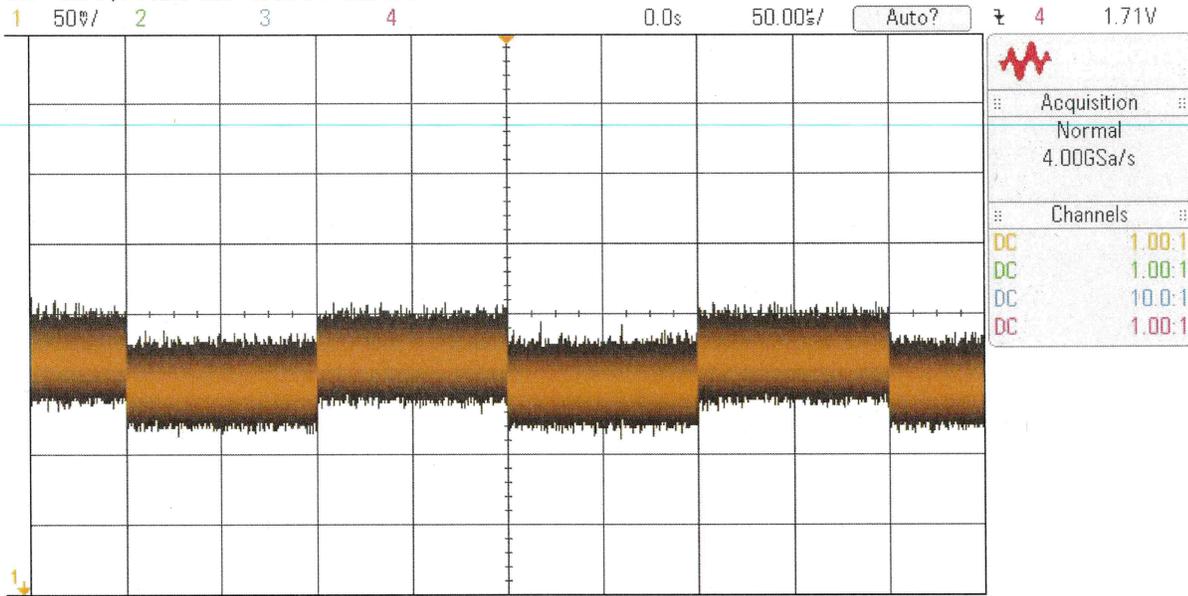
Learn About 30-day Trial



**SUMMARY TEST DATA
ON
SDLVA-1G20G-55-12-SFF**

TSS = -56.3 dBm

DSO-X 3034A, MY52394003: Tue Jun 24 10:22:47 2025



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